

jean-françois pamb Brun

researcher | engineer | software developer

about

(514) 222-2085
6783 chambord
montréal
canada

jf.pamb Brun@gmail.com
linkedin://jpamb Brun
github://jpamb Brun
http://jfpb.net

languages

french/english

programming

java, javascript
matlab, python
linux, git, c, c++
latex, tensorflow

standards

dicom, ihe, hl7
jpeg 2000, jpeg

interests

medical imaging
image compression
deep learning
rendering

education

2011-2016	Ph.D. in electrical engineering <i>improving medical image compression and transmission</i>	École de technologie supérieure (ÉTS)
2009-2010	M.Sc. in electrical engineering (incomplete†) <i>evaluation of the diagnostic quality of lossy compressed medical images</i>	École de technologie supérieure (ÉTS)
2005-2009	B.ing. in electrical engineering <i>information technologies and telecommunication</i>	École de technologie supérieure (ÉTS)

experience

2016 (dec-)	software developer <i>cloud-based diagnostic workstation with client-side MPR</i>	nucleus.io
2016 (jun-dec)	postdoctoral fellow <i>MR-TRUS fusion and segmentation using deep neural networks</i>	CHUM research centre
2009-2016	lecturer <i>procedural programming (inf1005a) software development environment (ele116) image processing and analysis (ele747)</i>	École polytechnique de montréal & ÉTS
2007-2014	teaching assistants <i>healthcare distributed systems (gts840) software development environment (ele116) image processing and analysis (ele747)</i>	École de technologie supérieure (ÉTS)
2009 (01-09)	software developer <i>head-up display simulation for military flight simulators</i>	CAE inc.
2006-2008	research assistant <i>implementation of a standard compliance validation tool for hl7v3 implementation and evaluation of a medical image streaming framework</i>	École de technologie supérieure (ÉTS)

awards

2017	NSERC postdoctoral fellowship (declined)	90,000\$
2017	FRQNT postdoctoral fellowship (declined)	70,000\$
2016	GRSTB postdoctoral fellowship	18,000\$
2011	NSERC doctoral Alexander-Graham-Bell scholarship	105,000\$
2011	ÉTS excellence graduate student scholarship	60,000\$
2011	FRQNT doctoral research scholarship (declined)	60,000\$
2009	FRQNT master's research scholarship	30,000\$
2006	NSERC undergraduate student research awards	4,500\$

† not a member of the OIQ

‡ fast-track doctoral
admission without obtaining
a master's degree

publications

articles in peer-reviewed journals

The utilization of MRI in the operating room

Ménard C , Pambrun J-F, Kadoury S

Brachytherapy. *Elsevier*, 2017

Computed Tomography Image Compressibility and Limitations of Compression Ratio-Based Guidelines

Pambrun J.F. , Noumeir R.

Journal of Digital Imaging. *Springer Science*, 2015

Teaching DICOM by Problem Solving.

Noumeir R. , Pambrun J.F.

Journal of Digital Imaging. *Springer Science*, 2012

Streaming of medical images using JPEG2000 interactive protocol

Pambrun J.F. , Noumeir R.

International Journal of Innovative Computing and Applications. 2012

Using JPEG 2000 Interactive Protocol to Stream a Large Image or a Large Image Set

Noumeir R. , Pambrun J.F.

Journal of Digital Imaging. *Springer Science*, 2010

international peer-reviewed conferences/proceedings

Limitations of the SSIM quality metric in the context of diagnostic imaging

Pambrun J.F. , Noumeir R.

IEEE International Conference on Image Processing (ICIP), 2015

Compressibility variations of JPEG2000 compressed computed tomography

Pambrun J.F. , Noumeir R.

IEEE International Conference of the Engineering in Medicine and Biology Society (EMBC), 2013

Perceptual quantitative quality assessment of JPEG2000 compressed ct images with various slice thicknesses

Pambrun J.F. , Noumeir R.

IEEE International Conference on Multimedia and Expo, 2011

Interoperability testing of integration profiles based on HL7 standard version 3

Pambrun J.F. , Noumeir R.

IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Hands-on Approach for Teaching HL7 version 3

Noumeir R. , Pambrun J.F.

IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Streaming of Medical Images Using JPEG 2000 Interactive Protocol

Noumeir R. , Pambrun J.F.

IEEE International Conference on Systems, Signals and Image Processing. 2010

Interoperability Testing Software for Sharing Medical Documents and Images

Berube R. , Pambrun J.F, Noumeir R.

IEEE International Conference on Internet and Web Applications and Services. 2010

Images within the Electronic Health Record

Noumeir R. , Pambrun J.F.

IEEE International Conference on Image Processing. 2009